

Title (en)
SHAPE MEMORY POLYMER FOAM

Publication
EP 0361418 A3 19910828 (EN)

Application
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Priority
JP 24434088 A 19880930

Abstract (en)
[origin: EP0361418A2] A shape memory polymer foam which takes on a deformed shape and an as-molded shape, said deformed shape being produced when the polymer foam is compressed at a temperature higher than the glass transition point (T_g) of the polymer and then kept compressed at a temperature lower than the T_g until compression sets, said as-molded shape being produced when the compressed polymer foam is heated again to a temperature higher than the T_g until it recovers its original shape.

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B29C 61/00; **C08G 18/00**

IPC 8 full level
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Citation (search report)

- [X] US 4053548 A 19771011 - LUNDBERG ROBERT D, et al
- [X] US 3758916 A 19730918 - WETMORE J
- [A] GB 1578366 A 19801105 - BECKER WILHELM AB
- [A] US 4525316 A 19850625 - GALLA EDWARD A [US], et al
- [A] US 3624045 A 19711130 - STIVERS EDWARD C
- [A] DE 1704160 A1 19710422 - KABEL UND METALLWERKE GUTHOFFN
- [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 163 (C-424)(2610) May 26, 1987 & JP-A-61 293 214 (MITSUBIHI HEAVY IND. LTD.) December 24, 1986

Cited by
CN1038332C; US5418261A; EP1413269A3; US5430072A; US5624972A; US6702976B2; US5278274A; US5624728A; US5698153A; US6034149A; EP0470697A3; EP2234876A4; EP3031597A1; US7939178B2; WO2009096967A1; US8387536B2; US8382042B2; US6251497B1; WO2010110829A1; WO9902587A1; US6583194B2; US8864065B2; US8016249B2; US8342457B2; US8573535B2; WO9529807A1; WO2009045656A1; US10563004B2

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